

System and Method for Arrhythmia Discrimination

Abstract of the Disclosure

The present invention provides a system and a method for
5 discriminating supraventricular tachyarrhythmias from ventricular arrhythmias
during a tachycardia episode. First cardiac signals and second cardiac signals are
sampled for cardiac complexes. A first feature on the first cardiac signal and a
second feature on the second cardiac signal are utilized to determine an average time
difference for a plurality of normal sinus rhythm complexes. A time difference
10 between the first feature and the second feature is then determined for each cardiac
complex of a tachycardiac rhythm. The cardiac complex is characterized as a
ventricular tachycardia complex if the time difference exceeds the average time
difference by a predetermined amount. Otherwise, it is classified as VT if its
morphology after alignment is different from that during normal sinus rhythm.

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